

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A stent delivery system for use in a body lumen,
comprising:

a catheter comprising a catheter body having a distal end, a proximal end, a
longitudinal axis and a lumen;

an expansion device disposed near the catheter body distal end;

a stent having a wall comprising struts and connectors forming multiple passageways
and further comprising a side hole adapted to provide access to a side branch, said stent being
disposed over the expansion device; and

an ultrasound transducer disposed near the catheter body distal end and positioned for
transmitting and receiving ultrasound signals through said hole such that both a longitudinal
and an axial position of an ostium of a branch vessel of said body lumen is determined in
relation to said hole.

2. (Canceled)

3. (Original) The stent delivery system as in claim 1 wherein said ultrasound
transducer is disposed inside said expansion device.

4. (Canceled)

5. (Canceled)

6. (Canceled)

7. (Canceled)

8. (Canceled)

9. (Original) The stent delivery system as in claim 1 further comprising a guidewire at least partially disposed in said lumen.

10. (Original) The stent delivery system as in claim 7 further comprising a guidewire at least partially disposed in said lumen and passing through said passageway.

11. (Original) The stent delivery system as in claim 1 further comprising a controller coupled to said transducer.

12. (Currently Amended) A stent delivery system, said system comprising:
a catheter comprising a catheter body having a distal end, a proximal end and a lumen;
a balloon disposed near said catheter body distal end;
a stent having a wall comprising struts and connectors forming multiple passageways and further comprising a side hole, said stent disposed over said balloon;
an ultrasound transducer housing having a distal end, a proximal end, and a passage through said housing between said distal and proximal ends, said housing having a transducer coupled thereto; and
a positioning guidewire at least partially disposed in said catheter lumen, said guidewire passing through said transducer housing passageway.

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

19. (Cancelled)

20. (Cancelled)

21. (Cancelled)

22. (New) The stent delivery system as in claim 1 wherein the stent is delivered within the body lumen such that the side hole can be aligned with the ostium of the branch vessel.